

2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Methoxyethoxy)-2,2,2-trifluoroacetate

Other names: Tetradecaethylene glycol monomethyl ether, trifluoroacetate
3,6,9,12,15,18,21,24,27,30,33,36,39,42-Tetradecaoxatritetracont-1-yl trifluoroacetate
Inchi: InChI=1S/C31H59F3O16/c1-36-2-3-37-4-5-38-6-7-39-8-9-40-10-11-41-12-13-42-14-15-4
InchiKey: ZHOSOTIKDOBAQO-UHFFFAOYSA-N
Formula: C31H59F3O16
SMILES: COCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC(=O)C(F)(F)F
Mol. weight [g/mol]: 744.79

Physical Properties

Property code	Value	Unit	Source
gf	-2075.37	kJ/mol	Joback Method
hf	-3376.13	kJ/mol	Joback Method
hfus	97.29	kJ/mol	Joback Method
hvap	123.75	kJ/mol	Joback Method
log10ws	0.45		Crippen Method
logp	0.954		Crippen Method
mcvol	542.580	ml/mol	McGowan Method
pc	493.39	kPa	Joback Method
rinpol	4073.90		NIST Webbook
tb	1293.43	K	Joback Method
tc	1947.70	K	Joback Method
tf	826.70	K	Joback Method
vc	2.091	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1951.84	J/mol×K	1293.43	Joback Method
cpg	1897.03	J/mol×K	1402.47	Joback Method
cpg	1798.97	J/mol×K	1511.52	Joback Method
cpg	1654.69	J/mol×K	1620.56	Joback Method
cpg	1461.17	J/mol×K	1729.61	Joback Method
cpg	1215.44	J/mol×K	1838.65	Joback Method
cpg	914.50	J/mol×K	1947.70	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U351966&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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